Map of parcels at 29 kft on 04071216 influenced by convection 0.0 to 2.5 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 04071216 2.5 2.0 Days Since Convection 1.5 1.0 0.5 NASA/ARC **PSL** Last Image Used is 0407121545 1209 Trajectories

Map of parcels at 29 kft on 04071216 influenced by convection 2.5 to 5.0 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection 5.0 Cross, square, and trajectory colors indicate elapsed time between convection and 04071216 Days Since Convection 4.0 3.5 3.0 2.5 NASA/ARC PSL Last Image Used is 0407121545 1209 Trajectories

Map of parcels at 29 kft on 04071216 influenced by convection 5.0 to 7.5 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 04071216 7.5 5.5 5.0 NASA/ARC **PSL** Last Image Used is 0407121545 1209 Trajectories

Map of parcels at 29 kft on 04071216 influenced by convection 7.5 to 10.0 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 04071216 10.0 Days Since Convection 7.5 NASA/ARC **PSL** Last Image Used is 0407121545 1209 Trajectories